

October 31, 2022

Revised December 7, 2022

Department of the Army
Los Angeles District, U.S. Army Corps of Engineers
Attn: Shannon Pankratz
Regulatory Division, CESPL-RG
915 Wilshire Blvd., Suite 930
Los Angeles, CA 90017
Shannon.L.Pankratz@usace.army.mil

RE: PETERSEN RANCH MITIGATION BANK AREA A 4TH CREDIT RELEASE [USACE FILE NO: SPL-2012-00669-BEM, CDFW TRACKING NO: 1798- 2013-04-R5]

Dear Interagency Review Team:

With this letter Land Veritas (Bank Sponsor) formally requests a partial fourth credit release for Area A of the Petersen Ranch Mitigation Bank (Bank).

Sections VII.A.1.d, VII.C.1.d, and VII.D.2.a(4) of the Bank Enabling Instrument (BEI) state that the fourth credit release (up to an additional 15% of the total anticipated credits) shall occur when:

- i. The Bank Sponsor has submitted the Fourth Year Monitoring Report as required by the Development Plan;
- ii. Year 4 Performance Standards have been attained;
- iii. The Bank Sponsor funds a minimum of 70% of the Endowment Amount per Section VI.E.2c;
- iv. Release 3 has occurred; and
- v. IRT Site Visit

Item (i) was completed on November 15, 2021, with the submission of the 2021 Annual Monitoring Report to the Interagency Review Team (IRT), which covers the Fourth Year of performance monitoring for Area A.

Ex. 4 CBI

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Item (iii) was completed on October 28, 2022. Per Exhibit D-2 of the BEI, the total Endowment Fund will include a long-term management account and an easement compliance account. The easement compliance account was fully funded prior to bank establishment. On October 28, 2022, Land Veritas deposited (Ex. 4 CBI 35 into the Long-Term Management Endowment Fund Account managed by the Southwest Resource Management Association (Table 7). Upon deposit, 70% of the total inflation adjusted long-term management amount for Area A was funded. A receipt for the deposit amount is included as Attachment C.

Item (iv) was completed between April and June 2021. On April 22, 2021, June 16, 2021, and June 23, 2021, the California Department of Fish and Wildlife (CDFW), United States Army Corps of Engineers (USACE), and the Lahontan Regional Water Quality Control Board (RWQCB), respectively, approved the third credit release for Area A of the Bank.

Item (v), Land Veritas hosted a site visit for members of the Interagency Review Team on April 19, 2022.

The Bank's credit ledgers are attached to this letter for your review (Attachment D). Detailed credit release accounting in the ledger is submitted as Attachment E.

Finally, the Bank Sponsor is prepared to pay the proportionally appropriate amount of the CDFW Implementation Fee in full to CDFW following the procedures described in Sections VII.C.5 and VII.D.2(b) of the BEI. The amount to be funded will be equal to 15% of the total Implementation Fee. To date we have paid \$33,826.52, or 55% of the total Implementation Fee. The additional 15% Implementation Fee payment in the amount of \$9,225.41 will be paid no later than by the submittal of the 2022 Annual Monitoring Report, or November 15, 2022.

Based on the successful attainment of these release criteria, the Bank Sponsor requests that the IRT release all eligible credits associated with the Area A fourth credit release as summarized in Tables 1-6.

Sincerely,

H. Tracey Brownfield, President Land Veritas Corp

CC:

Melissa Scianni, EPA Region IX Lisa Gymer, CDFW Region 5 Tiffany Steinert, Lahontan Regional Water Quality Control Board



Table 7. Endowment funding status, Area A

Endown Financia	ent Fund Accounting	Easement Long-Term Management Total Area A Compliance Endowment Endowments
	owment Amount 2/30/2014)	
Original A Required ¹	rea A Amount	
2021 CPI / Amount (1	Adjusted Area A 16.5%)²	
	ısted Area A nt Amount³	
Initial	Amount	
Deposit⁴	Deposit Date	
Deposit	Amount	
#1	Deposit Date	
Deposit	Amount	
#2	Deposit Date	HV ALKI
Deposit	Amount	Ex. 4 CBI
#3	Deposit Date	
Deposit	Amount	
#4	Deposit Date	
Total Ban Deposits	k Sponsor	
Percent 2021 CPI Adjusted Area A Amount Funded ⁵		
TOTAL FU	JNDED AMOUNT ⁶	
Net Amount of Investment Earnings, Gains, and Losses ^{7,8}		
Expenditu	ıres ⁸	T
CURRENT	BALANCE8	

¹ Amount agreed upon in the BEI, executed on 5/11/2016.

² Endowment amounts are adjusted annually using Consumer Price Index (CPI) data from the CA Department of Industrial Relations, Division of Labor Statistics and Research. Adjustments are made by April 1st until the Endowment Fund is fully funded. Starting in 2020 following approval of the IRT, annual adjustments will be made comparing the annual average of 2016 to the annual average of the full year preceding the year of reporting.

³ Equal to the SCE Endowment Amount and Adjusted Area A Amount

⁴ Initial deposits were made by SCE to cover their portion of the endowment funding requirements (BEI Exhibit D-2).

⁵ The percent of Bank Sponsor Deposits applied to the Adjusted Area A Amount.

 $^{^{\}rm 6}\,\text{Equal}$ to the sum of all deposits made and the SCE endowment fund amount.

⁷ Including realized and unrealized earnings.

⁸ Financial reporting provided by SRMA for FY2021 through June 30, 2021 and does not include Deposit #3 amount.



Attachment A

Area A – Year 4 (2021) Performance Monitoring Results by Credit Type



AREA A - YEAR 4 (2021) PERFORMANCE MONITORING RESULTS BY CREDIT TYPE

The following document has been prepared to explain how each performance standard was or was not achieved for each credit type in 2021. The document synthesizes the following:

- General performance standard measurement and assessment processes at the Petersen Ranch Mitigation Bank;
- Performance monitoring structure at Area A; and
- 2021 performance monitoring results for each Restoration Site and Enhancement Area at Area A, including:
 - 2021 CRAM Results;
 - 2021 UPS Results;
 - Explanation of whether performance standards were achieved;
 - List of credit types from each Restoration Site or Enhancement Area; and
 - o Whether those credit types are eligible for release with this request letter.

General Performance Monitoring Measurement and Assessment Process

Per the BEI, Exhibit C-1 Development Plan, "Performance Standards include both CRAM-based Performance Standards and Uniform Performance Standards (UPS) measured using permanent transects. ... Monitoring the established, re-established, rehabilitated, and enhanced habitats will occur annually throughout the performance monitoring period beginning the first spring following completion of the mitigation activities. Data will be collected in each monitoring year during spring or early summer to assess native vegetation."

The following excerpts from the BEI, Exhibit C-1 Development Plan document how the performance monitoring data will be evaluated and interpreted by the IRT agencies to assess performance and determine how credits should be released:

"The USACE and the Lahontan RWQCB will base performance of each Restoration Site using the results of both CRAM and UPS, while CDFW will determine performance of each restoration site using data collected during UPS monitoring." (Development Plan, Part I, Section 6.0)

"Due to limitations in the way CRAM is scored, there is the potential for measurable improvements in the restored habitats to not be adequately reflected in the CRAM scores. To ensure changes in enhanced habitats are captured, and measured, UPS have been established for each CRAM metric. Mitigation actions will be considered as meeting their performance standards for the USACE and Lahontan RWQCB when they have met both the UPS and the target CRAM scores. If the Target CRAM score is not met for any metric during years 3, 4, and 5, the UPS may be used by the USACE/Lahontan RWQCB to determine if and to what degree the restored habitats are meeting the performance standards. Likewise, if the UPS is not met, the Target CRAM may be used. In such an event, the USACE would also make a case-by-case determination if full, partial, or no release of credits would be warranted. The Final Performance Standard will not be met until the target CRAM score has been achieved. For 1600 and CEQA credits, performance of the mitigation activities will be based solely on meeting the UPS." (Development Plan, Part I, Section 6.1.2)

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Practically, the guidelines presented in the Development Plan are implemented each year through the annual reporting process. Both CRAM and UPS data is collected annually and presented to the IRT via annual monitoring reports. The report attempts to present performance standards as being met or not met in accordance with the Development Plan as outlined above. For example, performance standards of USACE and Lahontan RWQCB mitigation actions are presented as "met" if either the CRAM or corresponding UPS metric's performance standard is met. However, it is within the USACE and Lahontan RWQCB discretion to evaluate the data and make their own determination as to whether the performance standards have been met. Similarly, we evaluate CDFW mitigation actions against the UPS performance standards only, consistent with the procedures outlined in the Development Plan. We seek to provide as much data as possible to support and inform USACE, Lahontan RWQCB, and CDFW's evaluation of performance.

Performance Monitoring Structure at Area A

Performance standards for the Petersen Ranch Mitigation Bank are assessed at and tailored to specific restoration and enhancement areas, as outlined in the BEI (Exhibit C-1 Development Plan). Activities performed in each restoration and enhancement area generate credits. For credits to be eligible for release, the performance standards for the restoration or enhancement areas from which the credits are generated must be met.

At Area A, there are three distinct areas assessed for performance:

- Area A Rift Valley Restoration Site
- Area A Petersen Stream Restoration Site
- Area A Enhancement Areas

Credits generated from the Rift Valley and Petersen Stream Restoration Sites are either 404 uniform re-establishment credits or 1600 restoration credits (re-establishment or rehabilitation). These credits must meet their respective Restoration Site-specific performance standards to be eligible for release.

In addition, there are habitats outside of these distinct restoration sites that have been awarded either enhancement or preservation credits. Enhancement credits must meet the Enhancement Area performance standards to be eligible for release. There are no performance standards associated with preservation credits; therefore, preservation credits do not need to meet performance standards to be eligible for release.

Performance Standards for the Area A Rift Valley Restoration Site, Area A Petersen Stream Restoration Site, and Area A Enhancement Areas are compiled in Attachment A - Appendix 1 for reference.



Attachment A - Appendix 1:

Area A Performance Standards



Area A Rift Valley Restoration Site Performance Standards

Source: BEI, Exhibit C-1 Development Plan, Part II, Section 1.5

Table 15. CRAM Performance Standard for AAs in the Rift Valley Restoration Sites

Metric/ Submetric	Year 1	Year 2	Year 3	Year 4	Year 5	Final
Buffer and Landscape Context	NA	NA	75	75	75	75
Hydrology	NA	NA	83	83	83	83
Physical Structure	NA	NA	50	55	63	63
Biotic Structure	NA	NA	67	72	78	78
Overall	NA	NA	67	72	75	75

Table 16. UPS for the Rift Valley Restoration Sites

Туре	Uniform Performance Standard	Year 1	Yea	r 2	Year 3	Year 4	Yea	ar5	Final
Physical:	UPS #20	Must contain ≥25% of the structural patch types found at the selected reference site		≥50% of the structural patch at types found at the selected e reference site		Must contai ≥75% of the structural pa types found the selected reference si	atch at	t types found at the selected	
Hydrologic:	UPS #23				ensure that t nd conditions	he depth to g ;.	roundv	√ater is	within the
Bíological:	UPS #28 Dominance of Natives	Absolute cover of native species will be at least 10% of the cover observed at the reference site	cover of native native species species will be at least 50% of the cover observed at the species cover observed at the species cover of native species will be at least 60% of the cover observed at the species at least 75% of cover observed at the species at least 75% of cover observed at the species at least 75% of cover observed at the species at least 75% of cover observed at the species at least 75% of cover observed at the species at least 75% of cover observed at the species species will be at least 60% of the cover of native species species will be at least 60% of the cover observed at the species species will be at least 60% of the cover observed at the species will be at least 60% of the cover observed at the species will be at least 60% of the cover observed at least 75% of cover observed at the species at least 75% of cover observed at the species at least 75% of cover observed at the species at least 75% of cover observed at the species at least 75% of cover observed at the species at least 75% of cover observed at the species at least 75% of cover observed observed at the species at least 75% of cover observed at the species at least 75% of cover observed observed at the species at least 75% of cover observed at the species at least 75% of cover observed observed at the species at least 75% of cover observed observed observed at the species at least 75% of cover observed observed observed observed at the species at least 75% of cover observed				ies will be of the ved at the		
	UPS #29 Dominance of Exotics	Relative cover of non-native, invasive species will be \leq the reference site.							ence site.
	UPS #31 Species Richness	Number of native species in planting areas ≥ 75% of the reference site							ce site



Area A Petersen Stream Restoration Site Performance Standards

Source: BEI, Exhibit C-1 Development Plan, Part II, Section 2.5

Table 19. CRAM Performance Standard for the Petersen Stream Restoration Site

Metric/Submetric	Year 1	Year 2	Year 3	Year 4	Year 5	Final
Buffer and Landscape Context	NA	NA	83	83	83	83
Hydrology	NA	NA	67	67	67	67
Physical Structure	NA	NA	63	70	75	75
Biotic Structure	NA	NA	61	70	78	78
Overall	NA	NA	69	73	76	76

Table 20. Uniform Performance Standards for the Petersen Stream Restoration Site

Туре	Uniform Performance Standard	Year 1	Year 2	Year 3	Year 4	Year 5	Final			
Physical:	UPS #2	The mitigation retains or increases stream stability and does not cause site, upstream, or downstream excessive erosion or aggradation. Specifically: Overall channel form should not indicate a consistent trajectory indicating a transition from a multi-thread to a single thread channel form.								
Hydrologic:	Custom		Field indicators of Ordinary High Water and distinct hydrogeomorphic floodplain units will be documented within the alluvial floodplain.							
Biological ¹ :	UPS #28 Dominance of Natives	Cover of native species will be at least 5% absolute cover	Cover of native species will be at least 10% absolute cover	Cover of native species will be at least 20% absolute cover	Cover of native species will be at least 30% absolute cover	Cover of native species will be at least 50% absolute cover	Cover of native species will be at least 50% absolute cover			
	UPS #29 Dominance of Exotics ²	Relative cover of non-native, invasive species will be 0%.								
	UPS #31 Species Richness	Number of native species in planting areas ≥ 14 species								

Percent cover estimates were calculated using UPS standards and pre-fire vegetation data from reference sites within the Elizabeth Lake Bank Property. See Exhibit H of the BEI for these data.

^{2.} Excluding non-native annual grasses listed as highly invasive Cal-IPC (2006) , which will be ≤ 10% cover.



Area A Enhancement Areas Performance Standards

Source: BEI, Exhibit C-1 Development Plan, Part I, Section 9.1

Table 10. CRAM Performance Standard for Cattle Exclusion Enhancement AA #11 at Petersen Ranch

Metric/Submetric	Year 1	Year 2	Year 3	Year 4	Year 5	Final
Buffer and Landscape Context	NA	NA	92	92	100	100
Hydrology	NA.	NA	75	75	75	75
Physical Structure	NA	NA	63	63	63	63
Biotic Structure	NA.	NA	81	97	100	100
Overall	NA	NA	78	82	85	85

Table 11. Uniform Performance Standard Requirements of Enhancement Areas

Туре	Uniform Performance Standard	Year 1	Year 2	Year 3	Year 4	Year 5	Final	
	UPS #28 Dominance of Natives	Cover of na species will 20% absolu	be at least	Cover of nat will be at lea absolute cov	ıst 30%	Cover of native species will be at least 60% absolute cover		
Biological:	UPS #29 Dominance of Exotics	Absolute cover of non-native, invasive species will be = 10%.</td						
	UPS #31 Species Richness	Number of native species will be ≥ 9						



Attachment B

Detailed Accounting of Credits Not Requested for Release



Attachment C

Area A Long-Term Management Endowment Deposit #3 Receipt



Attachment D Ledgers



Attachment E

Detailed Credit Release Ledger Accounting